ELSEVIER

Biomembranes

Vol. 1327, 1997

BIOCHIMICA ET BIOPHYSICA ACTA

BBA

Cumulative Contents

Information for Contributors *vii*

Rapid report

Photodynamic membrane damage at the level of single ion channels
L. Kunz and G. Stark (Germany) 1

Regular papers

Conventional and saturation-transfer EPR of spin-labeled mutant bacteriophage M13 coat protein in phospholipid bilayers
W.F. Wolkers, R.B. Spruijt, A. Kaan, R.N.H. Konings and M.A. Hemminga (Netherlands) 5

Dynamic properties of Newcastle Disease Virus envelope and their relations with viral hemagglutinin-neuraminidase membrane glycoprotein
I. Muñoz-Barroso, C. Cobaleda, G. Zhadan, V. Shnyrov and E. Villar (Spain) 17

Characterisation and phase behaviour of phospholipid bilayers adsorbed on spherical polysaccharidic nanoparticles
M. Major, E. Prieur, J.F. Tocanne, D. Betbeder and A.M. Sautereau (France) 32

Solute-induced shift of phase transition temperature in Di-saturated PC liposomes: adoption of ripple phase creates osmotic stress
W.R. Perkins, X. Li, J.L. Slater, P.A. Harmon, P.L. Ahl, S.R. Minchey, S.M. Gruner and A.S. Janoff (USA) 41

A calcium-activated, large conductance and non-selective cation channel in *Paramecium* cell
F. Saitow, Y. Nakaoka and Y. Oosawa (Japan) 52

Combination of antitumor ether lipid with lipids of complementary molecular shape reduces its hemolytic activity
W.R. Perkins, R.B. Dause, X. Li, J.C. Franklin, D.J. Cabral-Lilly, Y. Zha, E.H. Dank, E. Mayhew and A.S. Janoff (USA) 61

Fluorescent recovery after photobleaching (FRAP) of a fluorescent transferrin internalized in the late transferrin endocytic compartment of living A431 cells: Theory
P. Wahl and F. Azizi (France) 69

Fluorescence recovery after photobleaching (FRAP) of a fluorescent transferrin internalized in the late transferrin endocytic compartment of living A431 cells: Experiments
F. Azizi and P. Wahl (France) 75

Voltage sensitivity of gap junction currents in rat osteoblast-like cells
K. Schirrmacher, S.V. Ramanan, K. Cronin, E. Peterson and P.R. Brink (Germany, USA) 89

Association and release of prostaglandin E_1 from liposomes
S.M.K. Davidson, D. Cabral-Lilly, F.P. Maurio, J.C. Franklin, S.R. Minchey, P.L. Ahl and A.S. Janoff (USA) 97

Purification of functional human P-glycoprotein expressed in *Saccharomyces cerevisiae*
Q. Mao and G.A. Scarborough (USA) 107

Interactions of an antimicrobial peptide, magainin 2, with outer and inner membranes of Gram-negative bacteria
K. Matsuzaki, K.-i. Sugishita, M. Harada, N. Fujii and K. Miyajima (Japan) 119

Phosphatidylcholine–fatty acid membranes: effects of headgroup hydration on the phase behaviour and structural parameters of the gel and inverse hexagonal (H_{II}) phases
J.M. Seddon, R.H. Templer, N.A. Warrender, Z. Huang, G. Cevc and D. Marsh (UK, Germany) 131

Information for Contributors *vii*

Regular papers

Planar lipid bilayers on solid supports from liposomes – factors of importance for kinetics and stability
G. Puu and I. Gustafson (Sweden) 149

A membrane protein primarily associated with the lysosomal compartment
D.A. Brooks, T.M. Bradford, S.R. Carlsson and J.J. Hopwood (Australia, Sweden) 162

The interaction of abietic acid with phospholipid membranes
F.J. Aranda and J. Villalaín (Spain) 171

Immunogenicity and pharmacokinetic attributes of poly(ethylene glycol)-grafted immunoliposomes
J.A. Harding, C.M. Engbers, M.S. Newman, N.I. Goldstein and S. Zalipsky (USA) 181

Isolation and characterization of the mitochondrial channel, VDAC, from the insect *Heliothis virescens*
J. Ryerse, M. Colombini, T. Hagerty, B. Nagel and T.T. Liu (USA) 193

Cloning and molecular characterization of a voltage-dependent anion-selective channel (VDAC) from *Drosophila melanogaster*
J. Ryerse, E. Blachly-Dyson, M. Forte and B. Nagel (USA) 204

Characterization of CCK receptors in stomach smooth muscle: evidence for two subtypes
A. De Weerth, T. Von Schrenck, M. Gronewold, F. Freudenberg, S. Mirau, M. Schulz and H. Greten (Germany) 213

A biotinylated perfringolysin O derivative: A new probe for detection of cell surface cholesterol
M. Iwamoto, I. Morita, M. Fukuda, S.-i. Murota, S. Ando and Y. Ohno-Iwashita (Japan) 222

The anion transporter and a 28 kDa protein are selectively photolabeled by *p*-azidobenzylphlorizin under conditions that alter RBC morphology, flexibility, and volume
D.M. Hoefner, M.E. Blank and D.F. Diedrich (USA, Germany) 231

Radiation-inactivation analysis of the oligomeric structure of the renal sodium/D-glucose symporter
M. Jetté, V. Vachon, M. Potier and R. Béliveau (Canada) 242

A large conductance, Ca^{2+}-activated K^+ channel in a human lung epithelial cell line (A549)
F.P.G. Ridge, M. Duszyk and A.S. French (Canada) 249

Lipogastrins as potent inhibitors of viral fusion
R.F. Epand, L. Moroder, J. Lutz, T.D. Flanagan, S. Nir and R.M. Epand (Canada, Germany, USA, Israel) 259

Effect of lipid structure on the dipole potential of phosphatidylcholine bilayers
R.J. Clarke (Germany) 269

Cumulative Contents, Vol. 1327 279

Author Index 282